

Claims:

1. A fluidic damper comprising:

5 A closed cylinder (100) filled with fluid, containing a valve mechanism (90) attached to a piston rod (110), a portion of said piston rod emerges through an opening in an end wall of the cylinder (100),

Wherein

10 A disc portion (10) having multiple passages for fluid to flow from one side of said disc (10) to the other side, and a shaft (15) with at least one guide members (17) disposed on the surface of said shaft (15) at an angle;

A rotatable annular cover piece (20) which rotates about the said shaft (15), such that rotation of the cover piece (20) in one direction closes said passages and in the other direction opens up said passages;

15 An annular turning piece (40), which is structurally connected to the cover piece (20), having some form of retention mechanism (45) for holding itself onto said guide member (17) wherein the retention mechanism (45) fits or engages slidably to said guide member (17) on the surface of the said shaft (15), so that the turning piece (40) rotates when the retention mechanism (45) slides along the guide member (17);

20 A resilient means disposed between the said turning piece (40) and said cover piece (20), to push the turning piece (40) back to its original position and consequently rotates the cover piece (20) to a position that opens up the passages of said disc (10).

25 2. A fluidic damper according to claim 1 wherein the guide member (17) is a ridge and the retention mechanism (45) is notch on the inner surface of the turning piece (40).

30 3. A fluidic damper according to claim 1 wherein the guide member (17A) is a groove and the retention mechanism (45A) is knob extending from the inner surface of the turning piece (40).

4. A fluidic damper according to claim 1 or 2 wherein the resilient means is a spring wound (30) around the said shaft (15).

5. A fluidic damper according to any of the preceding claims wherein the turning piece (40) is structurally connected to the cover piece (20) by means of claws (25) extending from the cover piece (20) to the said turning piece (40).
- 5 6. A fluidic damper according to claim 1, wherein the shaft (15) is a hollow tube to receive the piston rod (110) therethrough.
7. A fluidic damper as claimed in claim 6, wherein said piston rod (110) is retained across said valve mechanism (90) with a pair of retaining means (58) mounted onto
10 said piston rod (110) against said turning piece (40) and said disc portion (10) respectively.
8. A fluidic damper according to claim 7, wherein the fluidic damper further comprises a spring (120) which connects the closed end of the cylinder (100) at one
15 end and rested on said retaining means (58) at the other end.
9. A fluidic damper as claimed in claim 1, wherein said shaft (15) is partially hollowed to receive said piston rod (110).
- 20 10. A fluidic damper as claimed in claim 9, wherein said shaft (15) having a locking portion which is extended therefrom and said locking portion is mounted with a retaining means having extensions and flanges for retaining said unitary piece of disc portion at one side and said spring (120) of the cylinder (100) at the other side.
- 25 11. A fluidic damper according to claim 1, wherein said multiple passages of the disc are formed with parts of the circular periphery of said disc are removed forming the openings to allow the fluid to pass there through.
- 30 12. A fluidic damper according to claim 1, wherein said multiple passages of the disc are formed with openings punctuated adjacent the circular periphery of said disc.